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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,505	08/26/2003	Anthony Sgroi JR.	618-1170-999	2713
20582	7590	10/04/2004		
JONES DAY 51 Louisiana Avenue, N.W. WASHINGTON, DC 20001-2113				EXAMINER BASICHAS, ALFRED
				ART UNIT 3749
				PAPER NUMBER

DATE MAILED: 10/04/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.	10/647,505	Applicant(s)
Examiner	Alfred Basichas	Art Unit 3749

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on 22 July 2004.  
2a) This action is FINAL.                            2b) This action is non-final.  
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 1-75 is/are pending in the application.  
4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
5) Claim(s) \_\_\_\_\_ is/are allowed.  
6) Claim(s) 1-75 is/are rejected.  
7) Claim(s) \_\_\_\_\_ is/are objected to.  
8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.  
10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All    b) Some \* c) None of:  
1. Certified copies of the priority documents have been received.  
2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) Notice of References Cited (PTO-892)  
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 12/16/03.

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.  
5) Notice of Informal Patent Application (PTO-152)  
6) Other: \_\_\_\_\_.

## DETAILED ACTION

### ***Election/Restrictions***

1. The species election requirement of the previous office action is hereby withdrawn. Further review and consideration has revealed that the various species are not patentably distinct.

### ***Double Patenting***

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

3. Claims 1-75 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-41 of U.S. Patent No. 6,726,469. Although the conflicting claims are not identical, they are not patentably distinct from each other because the general scope of the invention claimed are the same. The general scope of the claims involves an actuator with plural positions corresponding to plural force/pressure required to ignite the fuel. Whether the claims

simply recite varying the force/pressure required between the positions of the actuator, whether the claims specifically recite a high and low pressure mode, or whether the claims recite a specific amount of force required, the differences would not be unobvious to one of ordinary skill in the art at the time of invention.

4. Claims 1-75 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-52 of U.S. Patent No. 6,491,515. Although the conflicting claims are not identical, they are not patentably distinct from each other because the general scope of the invention claimed are the same. The general scope of the claims involves an actuator with plural positions corresponding to plural force/pressure required to ignite the fuel. Whether the claims simply recite varying the force/pressure required between the positions of the actuator, whether the claims specifically recite a high and low pressure mode, or whether the claims recite a specific amount of force required, the differences would not be unobvious to one of ordinary skill in the art at the time of invention.

5. Claims 1-75 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-52 of U.S. Patent No. 6,488,492. Although the conflicting claims are not identical, they are not patentably distinct from each other because the general scope of the invention claimed are the same. The general scope of the claims involves an actuator with plural positions corresponding to plural force/pressure required to ignite the fuel. Whether the claims simply recite varying the force/pressure required between the positions of the actuator, whether the claims specifically recite a high and low pressure mode, or whether the

claims recite a specific amount of force required, the differences would not be unobvious to one of ordinary skill in the art at the time of invention.

6. Claims 1-75 provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-19 of copending Application No. 10/788,195. Although the conflicting claims are not identical, they are not patentably distinct from each other because the general scope of the invention claimed are the same. The general scope of the claims involves an actuator with plural positions corresponding to plural force/pressure required to ignite the fuel. Whether the claims simply recite varying the force/pressure required between the positions of the actuator, whether the claims specifically recite a high and low pressure mode, or whether the claims recite a specific amount of force required, the differences would not be unobvious to one of ordinary skill in the art at the time of invention.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

7. Claims 1-75 provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-69 of copending Application No. 10/398,975. Although the conflicting claims are not identical, they are not patentably distinct from each other because the general scope of the invention claimed are the same. The general scope of the claims involves an actuator with plural positions corresponding to plural force/pressure required to ignite the fuel. Whether the claims simply recite varying the force/pressure required between the positions of the actuator, whether the claims specifically recite a high and low pressure

mode, or whether the claims recite a specific amount of force required, the differences would not be unobvious to one of ordinary skill in the art at the time of invention.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alfred Basichas whose telephone number is 703 306 3476. The examiner can normally be reached on Monday through Friday during regular business hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ira Lazarus can be reached on 703 308 1935. The fax phone numbers for the organization where this application or proceeding is assigned are 703 872 9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703 308 0861.

September 30, 2004



Alfred Basichas  
Primary Examiner  
703 306 3476